

Title (en)

Polyurethane elastomers from polyisocyanates and polyester ether polyols

Title (de)

Polyurethanelastomere aus aliphatischen Polyisocyanaten und Polyesteretherpolyolen

Title (fr)

Elastomères de polyuréthane à partir de polyisocyanates et des polyols de polyesteréther

Publication

EP 0749995 A1 19961227 (DE)

Application

EP 96108900 A 19960604

Priority

DE 19521798 A 19950616

Abstract (en)

Polyurethane (PU) elastomers (I), opt. contg. urea units, based on (a) a liq., aliphatic and/or alicyclic polyisocyanate component, (b) a NCO-reactive component with an average mol. wt. of 1000-6000 and a mean functionality of at least 2, (c) NCO- reactive cpds. with a mol. wt. of less than 1000, pref. less than 500, at least one of which has a functionality of at least 2, (d) 1-30 wt% fillers (w.r.t. elastomer), and opt. (e) conventional PU additives etc. At least one of the NCO-reactive cpds. in component (c) is a polyhydroxy cpd. based on a polyester-ether- polyol (II). Also claimed is a reaction injection moulding (RIM) process for the prodn. of opt. cellular, elastic mouldings with a closed surface layer and a density of more than 0.9 g/cm³, made from (I) which is produced with a NCO index of 90-120.

Abstract (de)

Die Erfindung betrifft Polyurethanelastomere hergestellt durch Umsetzung von Polyisocyanaten mit Polyesterpolyetherpolyolen (Diesterpolyetherdiolen) nach dem Reaktionsspritzgußverfahren (reaction injection molding, RIM).

IPC 1-7

C08G 18/42

IPC 8 full level

B29C 67/24 (2006.01); **C08G 18/40** (2006.01); **C08G 18/42** (2006.01); **C08G 18/65** (2006.01); **C08G 18/66** (2006.01); **C08G 18/72** (2006.01); **C08G 18/73** (2006.01); **C08L 75/00** (2006.01); **C08L 75/04** (2006.01)

CPC (source: EP US)

B29C 67/246 (2013.01 - EP US); **C08G 18/4018** (2013.01 - EP US); **C08G 18/425** (2013.01 - EP US); **C08G 18/4261** (2013.01 - EP US); **B29K 2075/00** (2013.01 - EP US); **C08G 2110/0033** (2021.01 - EP US); **C08G 2110/0066** (2021.01 - EP US); **C08G 2120/00** (2013.01 - EP US)

Citation (search report)

- [A] EP 0093335 A1 19831109 - BASF AG [DE]
- [A] US 4529744 A 19850716 - WOOD ROBERT J [US]

Cited by

CN1307227C; WO2004037882A1

Designated contracting state (EPC)

BE DE ES FR GB IT NL SE

DOCDB simple family (publication)

DE 19521798 A1 19961219; BR 9602803 A 19981006; CA 2178878 A1 19961217; DE 59609898 D1 20030109; EP 0749995 A1 19961227; EP 0749995 B1 20021127; ES 2185724 T3 20030501; JP H093154 A 19970107; KR 100423468 B1 20040630; US 5750580 A 19980512

DOCDB simple family (application)

DE 19521798 A 19950616; BR 9602803 A 19960614; CA 2178878 A 19960612; DE 59609898 T 19960604; EP 96108900 A 19960604; ES 96108900 T 19960604; JP 17439496 A 19960614; KR 19960021668 A 19960615; US 66128096 A 19960610